

# BIOLOGY

## COLLEGE OF ENGINEERING AND SCIENCE



### MAJORS

- Biology (BS): Cellular & Molecular Biology
- Biology (BS): Pre-Health Professions
- Biology (BS): Integrative Biology
- Biology (BS): Medical Technology\*
- Biology (BS): Cellular & Molecular Biology and Bioinformatics
- Biology (BS or BA) Pre-Masters of Education
- Biology (BA)

### MINORS

- Biology
- Marine Science

### ACCELERATED PROGRAMS AND AFFILIATIONS

- Biology (BS) 3+3 Pre-Chiropractic (Logan or Palmer)\*
- Biology (BS) 4+4 Pre-Dental (LECOM)\*
- Biology (BS) 4+4 Pre-Medicine - American University of Antigua College of Medicine
- Biology (BS) 4+4 Pre-Osteopathy (LECOM)\*
- Biology 2+3 Pre-Pharmacy (LECOM)\*
- Biology (BS) 3+2 or Traditional Pre-Physician Assistant (SRU)\*
- Biology (BS) 3+3 or Traditional Pre-Physical Therapy (SRU)\*

**SlipperyRock**  
University

A member of Pennsylvania's State System  
of Higher Education

EXPERIENCE THE DIFFERENCE

[www.sru.edu](http://www.sru.edu)

### WHAT CAN I DO WITH A BIOLOGY DEGREE?

A degree in biology is commonly viewed as a steppingstone to a career in medicine, dentistry, optometry, pharmacy or veterinary medicine, and while that's certainly true, it is so much more than that. Many biology graduates get jobs right out of college as medical technologists, conservation biologists, research technicians, quality control specialists, food science technicians and pharmaceutical sales representatives, among many other careers. A degree in biology is also preparation for advanced training to become a physical therapist, physician assistant, occupational therapist, nutritionist, forensic scientist or marine biologist. Less well-known careers such as museum curator, science writer, medical illustrator and wildlife photographer also await biology graduates. And let us not forget one of the most rewarding careers of all, biology teacher.

### BIOLOGY AT SRU

Through the biology curriculum, students will be exposed to basic and advanced principles of molecular, cellular, organismal and population biology. Students with a specific interest in the biological sciences can choose to concentrate their studies in a variety of fields, including anatomy, botany, cellular biology, ecology, microbiology, molecular biology, physiology and zoology, among others.

### WHY CHOOSE SRU BIOLOGY?

1. **Hands-on learning:** Nearly all biology classes include a weekly laboratory session using modern equipment and the latest techniques. Lab sessions involve one-on-one instruction by professors, not graduate students.
2. **Student-faculty research:** Biology majors may collaborate with faculty on undergraduate research, a long-standing tradition in the department. After working independently on their projects, students have the opportunity to present their research at conferences and become co- authors on scientific papers.
3. **Support and guidance:** Each undergraduate is assigned an academic adviser who guides the student on which courses to take, monitors the progress toward the degree and helps him or her make decisions about further education and career goals.
4. **Experienced faculty:** Our classes are taught by full-time faculty who are highly trained in a variety of disciplines in biology. The faculty bring a wealth of scientific knowledge, research expertise and real-world experience to each class, lab and advising session.
5. **Excellent research facilities:** The department resides in a recently renovated building that boasts modern labs and research facilities equipped with sophisticated instruments that may be used in student-faculty research.

## INTERNSHIP OPPORTUNITIES

SRU Biology students have completed internships at various locations including:

- Carnegie Science Center
- Humane Animal Rescue Wildlife Center
- Slippery Rock Veterinary Hospital
- Pittsburgh Zoo & PPG Aquarium
- Jennings Environmental Education Center
- UPMC-Horizon Hospital
- North Hills Family Dental
- National Aviary
- UPMC Magee-Womens Hospital

## CAREER OUTCOMES

While many SRU biology majors will continue their education after earning their bachelor's degree, graduates of the department have secured careers in the following areas:

- Pediatric Physician, Geisinger Janet Weis Children's Hospital
- Physician Assistant, Triangle Urological Group
- Physical Therapist, Legacy Medical Centers
- Wetland Biologist, U.S. Army Corps of Engineers Regulatory Branch
- Chiropractor, Click Family Chiropractic
- Quality Assurance Technician, Dean Foods
- Research Technician, Johns Hopkins University
- Optometrist, Gateway Eye Associates
- High School Teacher, Grove City High School
- Medical Laboratory Scientist, Cleveland Clinic

## CLUBS AND ORGANIZATIONS

- Beta Beta Beta
- Pre-Med Club
- Pre-PA Club
- Pre-Veterinary Club (PALS)

\* SRU is required by the State Authorization Reciprocity Agreement and US Department of Education to notify you whether our program meets the academic licensure/certification requirements in another state. All jurisdictions have their own requirements for licensure/certification eligibility. SRU is approved to offer programs that may lead to licensure/certification in Pennsylvania. We are unable to determine our program's eligibility in states other than PA. Please review the licensing board contact resource at [www.sru.edu/licensure-certification](http://www.sru.edu/licensure-certification) to seek guidance on the requirements of licensure in your home state or where you would like to practice professionally. Note that state requirements are subject to change at any time and without notice.



## ALUMNI SPOTLIGHT

### Isaac Fisher, '12

*PhD, Biomedical Researcher at Purdue University*

"The Biology Department is an ideal place to study the foundations for a career in biomedical research. I owe much of my success as a scientist to the guidance I received from the supportive faculty in the department. SRU biology classes teach foundational knowledge as well as current techniques in basic biological and biomedical research. This proved extremely useful as I was able quickly become proficient in more advanced methods early in graduate school. The program is small enough to ensure students get individualized attention while large enough to offer opportunities to write grants, perform research, publish papers, and present at national conferences (all of which are important for a career as a scientist). Obtaining a SRU biology degree was one of my best decisions in preparing for a career in biomedical research."

### Katie Graham-Roberts, '04

*Physician Assistant, Triangle Urological Group*

"My time with the Department of Biology at SRU was a steppingstone to great things. Not only was I well-prepared for graduate school, but I also made some great connections and met some lifelong friends."

### Evan Legenzoff, '03

*Operations Pharmacist, Chartwell at UPMC*

"The education I received from Slippery Rock University and the Department of Biology gave me the background and core knowledge for the steps that I was preparing to take in the future. There isn't any part of my career that hasn't reflected a portion of my learning at SRU."

## ACADEMIC CONTACT:

Vincent Science Center  
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## FOR MORE INFORMATION:

[www.sru.edu/majors](http://www.sru.edu/majors)

## ADMISSIONS OFFICE:

North Hall Welcome Center  
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